

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_ST0001_01_s_2013_2				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has copies of the O&M Manuals.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_ST0001_01_s_2013_5				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a stockpile of flood fight materials.					

No Photos

LM Start		Rating **	A	Issue No.	21
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_ST0001_01_s_2013_21				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard remain current on their emergency response training and practices.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	0.21	Rating **	M	Issue No.	70
LM End	1.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.717060 °	38.726715 °
				-121.823069 °	-121.807387 °
DWR ID	DWR_ST0001_01_s _ 2019_70				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.94	Rating **	M	Issue No.	69
LM End	1.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.719267 °	38.726716 °
				-121.815086 °	-121.807387 °
DWR ID	DWR_ST0001_01_s _ 2019_69				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.78	Rating **	M	Issue No.	31
LM End	11.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.728255 °	38.698609 °
				-121.806807 °	-121.674337 °
DWR ID	DWR_ST0001_01_s _ 2019_31				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	2.07	Rating **	C	Issue No.	55
LM End	2.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.732415 °	38.732415 °
				-121.805731 °	-121.805731 °
DWR ID	DWR_ST0001_01_s _ 2018_55				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on waterside slope.					

No Photos

LM Start	2.20	Rating **	C	Issue No.	81
LM End	2.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.733688 °	38.733688 °
				-121.804215 °	-121.804215 °
DWR ID	DWR_ST0001_01_s _ 2017_81				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree stumps on waterside levee slope.					

No Photos

LM Start	2.21	Rating **	M	Issue No.	50
LM End	2.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.733747 °	38.733293 °
				-121.803945 °	-121.798005 °
DWR ID	DWR_ST0001_01_s _ 2019_50				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	2.27	Rating **	C	Issue No.	37
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.733676 °	38.733676 °
				-121.802958 °	-121.802958 °
DWR ID	DWR_ST0001_01_f_2017_37				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Wood pile on waterside hinge point.					

No Photos

LM Start	2.57	Rating **	A/W	Issue No.	30
LM End	2.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.732836 °	38.732685 °
				-121.797893 °	-121.797154 °
DWR ID	DWR_ST0001_01_f_2018_30				
Comment Code					
Inspector Comment					
2017 Site ID: CHC 2.4 L					
Status: Critical					
2017 Field Notes: No observed change.					
Site History: Site identified as CRITICAL in 2002. 2006 - Currently constructing a setback levee. New failures present and extensive. Downstream end of the setback levee did not extend far enough. Upstream end was repaired. 2007 - DWR repaired with a setback levee, but the levee did not go far enough downstream. 2012 - New cracks observed. 2013 - Fresh erosion on upper bank.					
DWR Inspector Comment: No observed changes in erosion. Spring 2019.					

Photo 1 of 3 : SP\_2019\_ST0001\_259\_30\_20190304\_00023.jpg



View of erosion on the waterside toe road. Fall 2018.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	2.57	Rating **	A/W	Issue No.	30 (cont)
LM End	2.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.732836 °	38.732685 °
				-121.797893 °	-121.797154 °
DWR ID	DWR_ST0001_01_f _ 2018_30				
Comment Code					
Inspector Comment					
2017 Site ID: CHC 2.4 L Status: Critical 2017 Field Notes: No observed change. Site History: Site identified as CRITICAL in 2002. 2006 - Currently constructing a setback levee. New failures present and extensive. Downstream end of the setback levee did not extend far enough. Upstream end was repaired. 2007 - DWR repaired with a setback levee, but the levee did not go far enough downstream. 2012 - New cracks observed. 2013 - Fresh erosion on upper bank.					
DWR Inspector Comment: No observed changes in erosion. Spring 2019.					

Photo 2 of 3 : SP\_2019\_ST0001\_259\_30\_20190304\_00024.jpg



Additional view of the erosion, facing downstream. Fall 2018.

LM Start	<b>2.57</b>	Rating **	A/W	Issue No.	<b>30 (cont)</b>
LM End	<b>2.61</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2019\_ST0001\_259\_30\_20190304\_00025.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	2.74	Rating **	M	Issue No.	53
LM End	3.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.733672 °	38.729158 °
				-121.795045 °	-121.783400 °
DWR ID	DWR_ST0001_01_s_2019_53				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	2.84	Rating **	A/W	Issue No.	62
LM End	2.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.734514 °	38.734514 °
				-121.793418 °	-121.793418 °
DWR ID	DWR_ST0001_01_s_2018_62				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion is occurring on the waterside berm and toe road.					

LM Start	<b>2.84</b>	Rating **	A/W	Issue No.	<b>62 (cont)</b>
LM End	<b>2.84</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 5 : SP\_2019\_ST0001\_259\_62\_20190304\_00041.jpg



View of erosion on toe road, looking towards Cache Creek. Spring 2018.

Photo 2 of 5 : SP\_2019\_ST0001\_259\_62\_20190304\_00042.jpg



View of erosion looking towards the landside levee slope, facing northeast. Spring 2018.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sacramento Maintenance Yard Cache Creek**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	2.84	Rating **	A/W	Issue No.	62 (cont)	
LM End	2.84	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.734514 °		38.734514 °
				-121.793418 °		-121.793418 °
DWR ID	DWR_ST0001_01_s_2018_62					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Erosion is occurring on the waterside berm and toe road.						

LM Start	<b>2.84</b>	Rating **	A/W	Issue No.	<b>62 (cont)</b>
LM End	<b>2.84</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 5 : SP\_2019\_ST0001\_259\_62\_20190304\_00043.jpg



Downslope view of erosion, facing Cache Creek. Spring 2018.

Photo 4 of 5 : SP\_2019\_ST0001\_259\_62\_20190304\_00044.jpg



Additional view of erosion, looking northwest. Spring 2018.

LM Start	<b>2.84</b>	Rating **	A/W	Issue No.	<b>62 (cont)</b>
LM End	<b>2.84</b>	Issue Type +	Ma	Location *	WS

Photo 5 of 5 : SP\_2019\_ST0001\_259\_62\_20190304\_00045.jpg



View of erosion from levee crown, facing Cache Creek. Fall 2018.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	4.03	Rating **	M	Issue No.	56
LM End	4.03	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.727499 °	38.727499 °
				-121.779032 °	-121.779032 °
DWR ID	DWR_ST0001_01_s _ 2019_56				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	4.22	Rating **	A/W	Issue No.	34
LM End	4.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.727207 °	38.727187 °
				-121.775521 °	-121.775450 °
DWR ID	DWR_ST0001_01_f _ 2017_34				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:249					
Site Designation:LMA-57					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/2/2017					
Notes: setback levee site; remaining berm greater than 86 feet, no section taken, photo only.					

Photo 1 of 3 : LEVAL\_SP\_2019\_249\_954.jpg



* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



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Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	4.22	Rating **	A/W	Issue No.	34 (cont)
LM End	4.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.727207 °	38.727187 °
				-121.775521 °	-121.775450 °
DWR ID	DWR_ST0001_01_f_2017_34				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:249					
Site Designation:LMA-57					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/2/2017					
Notes: setback levee site; remaining berm greater than 86 feet, no section taken, photo only.					

Photo 2 of 3 : LEVAL\_SP\_2019\_249\_959.jpg



Photo 3 of 3 : LEVAL\_SP\_2019\_249\_960.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	<b>4.46</b>	Rating **	M	Issue No.	<b>58</b>
LM End	<b>4.81</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.725870 °	38.722392 °	
			-121.771586 °	-121.766891 °	
DWR ID	DWR_ST0001_01_s _ 2019_58				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>5.02</b>	Rating **	M	Issue No.	<b>24</b>
LM End	<b>5.71</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.720780 °	38.723677 °	
			-121.763497 °	-121.755171 °	
DWR ID	DWR_ST0001_01_s _ 2019_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>5.74</b>	Rating **	M	Issue No.	<b>60</b>
LM End	<b>5.74</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.723720 °	38.723720 °	
			-121.754694 °	-121.754694 °	
DWR ID	DWR_ST0001_01_s _ 2019_60				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There are rodent holes on the landside slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	<b>5.78</b>	Rating **	M	Issue No.	<b>64</b>
LM End	<b>6.47</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.724009 °	38.728722 °	
			-121.754055 °	-121.743318 °	
DWR ID	DWR_ST0001_01_s _ 2019_64				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>6.56</b>	Rating **	M	Issue No.	<b>65</b>
LM End	<b>6.64</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.728864 °	38.728881 °	
			-121.741701 °	-121.740200 °	
DWR ID	DWR_ST0001_01_s _ 2019_65				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>7.40</b>	Rating **	M	Issue No.	<b>67</b>
LM End	<b>8.35</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.728402 °	38.726508 °	
			-121.726795 °	-121.710307 °	
DWR ID	DWR_ST0001_01_s _ 2019_67				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 North Levee	Left	11.69	04/23/2019 04/23/2019	Zach Jojola

LM Start	7.69	Rating **	M	Issue No.	29
LM End	7.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.729027 °	38.729027 °
				-121.721683 °	-121.721683 °
DWR ID	DWR_ST0001_01_s_2015_29				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	8.40	Rating **	M	Issue No.	68
LM End	11.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.726470 °	38.698609 °
				-121.709358 °	-121.674337 °
DWR ID	DWR_ST0001_01_s_2019_68				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	10.01	Rating **	C	Issue No.	25
LM End	10.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.710296 °	38.710296 °
				-121.697480 °	-121.697480 °
DWR ID	DWR_ST0001_01_f_2015_25				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Approximately 4 holes halfway down the waterside slope.					

No Photos

<b>* Location</b>		<b>** Rating</b>		<b>+ Issue Type</b>	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	04/22/2019 04/22/2019	Zach Jojola

LM Start	0.03	Rating **	M	Issue No.	41
LM End	0.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.727422 °	38.729167 °
				-121.806047 °	-121.805278 °
DWR ID	DWR_ST0001_02_s_2019_41				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.03	Rating **	M	Issue No.	33
LM End	4.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.727422 °	38.724185 °
				-121.806047 °	-121.752308 °
DWR ID	DWR_ST0001_02_s_2019_33				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.18	Rating **	N	Issue No.	10
LM End	0.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.729560 °	38.729560 °
				-121.805231 °	-121.805231 °
DWR ID	DWR_ST0001_02_f_2015_10				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
The stump is located at the levee toe.					

Photo 1 of 1 : SP\_2019\_ST0001\_260\_10\_20190304\_00010.jpg



View of the tree stump at the landward side of the levee looking downstream. Fall 2015.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sacramento Maintenance Yard Cache Creek**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	04/22/2019 04/22/2019	Zach Jojola

LM Start	0.27	Rating **	N	Issue No.	6
LM End	0.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.730723 °	38.730723 °
				-121.804972 °	-121.804972 °
DWR ID	DWR_ST0001_02_s_2014_6				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
A large black walnut tree stump is at the toe of the levee					

Photo 1 of 1 : SP\_2019\_ST0001\_260\_6\_20190304\_00006.jpg



View of large black walnut tree stump is at the landside toe. Spring 2014

LM Start	0.34	Rating **	M	Issue No.	40
LM End	0.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.731823 °	38.731823 °
				-121.804670 °	-121.804670 °
DWR ID	DWR_ST0001_02_s_2019_40				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	0.67	Rating **	M	Issue No.	39
LM End	1.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.732360 °	38.733407 °
				-121.799233 °	-121.792412 °
DWR ID	DWR_ST0001_02_s_2019_39				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	04/22/2019 04/22/2019	Zach Jojola

LM Start	1.65	Rating **	C	Issue No.	38
LM End	1.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.730984 °	38.730984 °
				-121.786225 °	-121.786225 °
DWR ID	DWR_ST0001_02_s _ 2018_38				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple rodent holes on the landside slope and at the toe.					

No Photos

LM Start	1.67	Rating **	M	Issue No.	35
LM End	1.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.730680 °	38.730680 °
				-121.786112 °	-121.786112 °
DWR ID	DWR_ST0001_02_s _ 2019_35				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are rodent hole on the landside slope.					

No Photos

LM Start	1.67	Rating **	M	Issue No.	34
LM End	2.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.730598 °	38.726455 °
				-121.786045 °	-121.776000 °
DWR ID	DWR_ST0001_02_s _ 2019_34				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	04/22/2019 04/22/2019	Zach Jojola

LM Start	2.61	Rating **	A/W	Issue No.	36
LM End	2.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.724457 °	38.724457 °
				-121.771757 °	-121.771757 °
DWR ID	DWR_ST0001_02_s_2017_36				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.53	Rating **	A/W	Issue No.	2
LM End	3.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.722138 °	38.723294 °
				-121.759736 °	-121.759588 °
DWR ID	DWR_ST0001_02_f_2018_2				
Comment Code					
Inspector Comment					
2017 Site ID: CHC 3.5 R					
Status: Eroding					
2017 Field Notes: Significant amount of debris along bank.					
Site History: 2010 - Large slump on the upper berm, a tree has recently slid down the slope. 2011 - Large slump and new erosion. 2012 - Slightly steeper slopes and cracks observed.					

Photo 1 of 1 : SP\_2019\_ST0001\_260\_2\_20190304\_00001.jpg



USACE 2013 Photo #1

LM Start	3.60	Rating **	C	Issue No.	24
LM End	3.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.723229 °	38.723229 °
				-121.759521 °	-121.759521 °
DWR ID	DWR_ST0001_02_s_2018_24				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on the waterside slope.					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	04/22/2019 04/22/2019	Zach Jojola

LM Start	3.82	Rating **	M	Issue No.	31
LM End	4.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.722748 °	38.724185 °
				-121.755883 °	-121.752308 °
DWR ID	DWR_ST0001_02_s_2019_31				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	4.27	Rating **	C	Issue No.	25
LM End	4.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.726237 °	38.726237 °
				-121.749889 °	-121.749889 °
DWR ID	DWR_ST0001_02_f_2017_25				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on landside slope.					

No Photos

LM Start	4.42	Rating **	A/W	Issue No.	4
LM End	4.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.726840 °	38.726840 °
				-121.747228 °	-121.747228 °
DWR ID	DWR_ST0001_02_f_2016_4				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is erosion on the landside slope near the levee toe. It does not appear to pose a significant threat. Recommend monitoring.					

Photo 1 of 1 : SP\_2019\_ST0001\_260\_4\_20190304\_00004.jpg



Erosion on LS levee slope toward the toe. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	04/22/2019 04/22/2019	Zach Jojola

LM Start	4.44	Rating **	U	Issue No.	30
LM End	4.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.726908 °	38.726908 °
				-121.746833 °	-121.746833 °
DWR ID	DWR_ST0001_02_s_2019_30				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There are large rodent holes on the landside slope.					

Photo 1 of 1 : SP\_2019\_ST0001\_260\_30\_20190422\_00024.jpg



View of rodent holes on the landside slope. Spring 2019.

LM Start	4.83	Rating **	M	Issue No.	19
LM End	11.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.727010 °	38.678027 °
				-121.739887 °	-121.674062 °
DWR ID	DWR_ST0001_02_s_2019_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	4.83	Rating **	M	Issue No.	21
LM End	5.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.727007 °	38.725745 °
				-121.739887 °	-121.730505 °
DWR ID	DWR_ST0001_02_s_2019_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	04/22/2019 04/22/2019	Zach Jojola

LM Start	5.33	Rating **	A/W	Issue No.	11
LM End	5.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.722933 °	38.723467 °
				-121.760561 °	-121.760436 °
DWR ID	DWR_ST0001_02_f_2018_11				
Comment Code					
Inspector Comment					
2017 Site ID: CHC 5.4 L Status: Eroding 2017 Field Notes: Site continues to erode due to recent high storm events. Site History: 2009 - Erosion into the levee slope. 2010 - Minor new erosion. 2011 - New erosion and a freshly fallen tree. 2012 - New animal holes and slightly steeper slopes. 2013 - New tree popout and 2 feet of erosion along the top bank.					

Photo 1 of 1 : SP\_2019\_ST0001\_260\_11\_20190304\_00011.jpg



USACE 2013 Photo #1

LM Start	5.73	Rating **	M	Issue No.	18
LM End	11.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.727952 °	38.678027 °
				-121.724142 °	-121.674062 °
DWR ID	DWR_ST0001_02_s_2019_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sacramento Maintenance Yard Cache Creek**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 East Training Levee of Cache Creek Settling Basin	Left	2.26	04/23/2019 04/23/2019	Zach Jojola

LM Start	0.03	Rating **	M	Issue No.	4
LM End	2.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.726981 °	38.695860 °
				-121.717821 °	-121.715921 °
DWR ID	DWR_ST0001_04_s_2019_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_ST0001\_261\_4\_20190424\_00008.jpg



View of vegetation on the waterside slope. Spring 2019.

LM Start	0.03	Rating **	M	Issue No.	2
LM End	2.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.726981 °	38.695854 °
				-121.717821 °	-121.715921 °
DWR ID	DWR_ST0001_04_s_2019_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 East Training Levee of Cache Creek Settling Basin	Left	2.26	04/23/2019 04/23/2019	Zach Jojola

LM Start	<b>2.26</b>	Rating **	M	Issue No.	<b>1</b>
LM End	<b>2.26</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.695424 °	38.695253 °	
			-121.715914 °	-121.715926 °	
DWR ID	DWR_ST0001_04_f_2017_1				

**Comment Code**

**Inspector Comment**

**Levee Evaluation Comments**

**Description:**

Site ID No:250

Site Designation:LMA-58

Repair Type: Erosion

Rating:Area of Concern

Field Date:6/2/2017

Notes: training levee end slope where it keys into channel /access ramp erosion. No change as of fall 2018 inspection.

LM Start	<b>2.26</b>	Rating **	M	Issue No.	<b>1 (cont)</b>
LM End	<b>2.26</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL\_SP\_2019\_250\_962.jpg



Photo 2 of 3 : LEVAL\_SP\_2019\_250\_964.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 East Training Levee of Cache Creek Settling Basin	Left	2.26	04/23/2019 04/23/2019	Zach Jojola

LM Start	2.26	Rating **	M	Issue No.	1 (cont)	
LM End	2.26	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.695424 °	38.695253 °	
				-121.715914 °	-121.715926 °	
DWR ID	DWR_ST0001_04_f_2017_1					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:250						
Site Designation:LMA-58						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/2/2017						
Notes: training levee end slope where it keys into channel /access ramp erosion. No change as of fall 2018 inspection.						

Photo 3 of 3 : LEVAL\_SP\_2019\_250\_973.jpg



LM Start	2.26	Rating **	A/W	Issue No.	3
LM End	2.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.695416 °	38.695416 °
				-121.715943 °	-121.715943 °
DWR ID	DWR_ST0001_04_s_2017_3				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Scour on waterside levee slope at end of Unit 04 levee. There is no visible active erosion at this time, however future high water events will likely cause further erosion into the levee prism.					

Photo 1 of 4 : SP\_2019\_ST0001\_261\_3\_20190304\_00004.jpg



View of scour on waterside levee slope at the end of Unit 4. Spring 2018.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 East Training Levee of Cache Creek Settling Basin	Left	2.26	04/23/2019 04/23/2019	Zach Jojola

LM Start	2.26	Rating **	A/W	Issue No.	3 (cont)	
LM End	2.26	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.695416 °		38.695416 °
				-121.715943 °		-121.715943 °
DWR ID	DWR_ST0001_04_s_2017_3					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Scour on waterside levee slope at end of Unit 04 levee. There is no visible active erosion at this time, however future high water events will likely cause further erosion into the levee prism.						

LM Start	<b>2.26</b>	Rating **	A/W	Issue No.	<b>3 (cont)</b>
LM End	<b>2.26</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP\_2019\_ST0001\_261\_3\_20190304\_00005.jpg



View of newly scoured pond adjacent to the levee. Spring 2018.

Photo 3 of 4 : SP\_2019\_ST0001\_261\_3\_20190304\_00006.jpg



View of scour at the end of the Training Levee. Ramp is inaccessible at this time. Fall 2017.

Photo 4 of 4 : SP\_2019\_ST0001\_261\_3\_20190304\_00007.jpg



Scour on waterside levee slope at end of Unit 04 levee. Spring 2017.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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